

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

☒ OTHER:

*Small wording*

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**



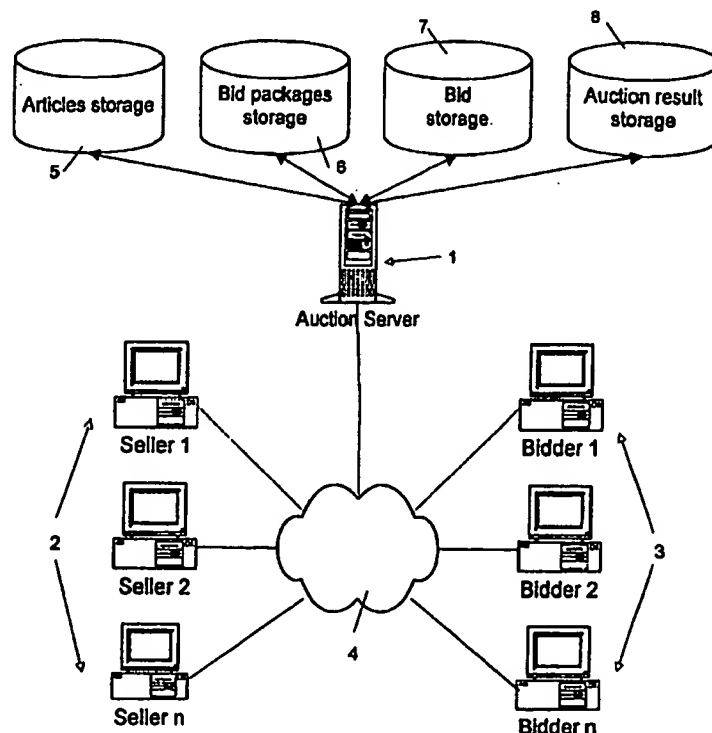
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>G06F 17/60, H04L 12/18 // G07C 11/00, 15/00</b>		A1	(11) International Publication Number: <b>WO 98/34187</b>
			(43) International Publication Date: 6 August 1998 (06.08.98)
(21) International Application Number: <b>PCT/DK98/00040</b>		(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 30 January 1998 (30.01.98)			
(30) Priority Data: 0107/97 30 January 1997 (30.01.97) DK			
(71) Applicant (for all designated States except US): AUTOCOM APS [DK/DK]; Allégade 25 A, st. th., DK-5000 Odense C (DK).			
(72) Inventors; and (75) Inventors/Applicants (for US only): GRØFTEHAUGE, Martin [DK/DK]; Allégade 25 A, st. th., DK-5000 Odense C (DK). GRØFTEHAUGE, Peter [DK/DK]; Margårdsvej 11, DK-5471 Sønderød (DK).			
(74) Agent: HOFMAN-BANG & BOUTARD, LEHMANN & REE A/S; Hans Bekkevolds Allé 7, DK-2900 Hellerup (DK).		<p><b>Published</b>  <i>With international search report.          Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.          In English translation (filed in Danish).</i></p>	

(54) Title: A METHOD OF HOLDING AN AUCTION AND USES OF THE METHOD

## (57) Abstract

The invention relates to a method of holding auctions which take place in a computer environment, where a plurality of sellers (8) and bidders (3) may submit bids from local computers to a central computer (1), a so-called server which may e.g. be coupled via the Internet. The server (1) may offer a catalogue (5) to the individual bidders (3) who can then prepare, via their own computers, a prioritized list of the articles which they may possibly desire to buy. The auctioning system incorporates the certainty, via a list of purchase conditions, that a bidder does not risk buying too many articles, or that he will not spend too much money, in the same manner as is known from a traditional live auction. It is moreover noted that the auctioning system may be combined with an ordinary live auction. The auctioning form gives a very advantageous price formation which considers both sellers' and buyers' interests. Furthermore, the auction may take place entirely without geographical limitations.



**FOR THE PURPOSES OF INFORMATION ONLY**

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						

A method of holding an auction and uses of the method  
-----

5 The invention relates to a method of holding an auction  
of a plurality of articles in a computer environment,  
said auction being controlled by a central computer.

10 EP 0 793 382 A2 and US Patent No. 4 789 928, e.g., dis-  
close an auctioning concept where buyers can bid for an  
article from a computer in the same manner as is done at  
a traditional auction. Thus, only one article is put up  
for sale at a time, which means of course that the auc-  
tioning process may take a good deal of time if a large  
number of articles is to be auctioned.

15 Furthermore, the known auctioning concepts have the draw-  
back that individuals wanting to bid at the auction must  
be present at the same time, which, of course, is a draw-  
back of an individual e.g. from Japan wants to bid via  
20 his computer at the same time as an individual residing  
in the United States.

25 Accordingly, an object of the invention is to provide an  
auctioning form of the type mentioned in the opening  
paragraph which allows the auction to be conducted inde-  
pendently of geographical conditions. Another object is  
that the articles for sale need not be auctioned in a  
specific order.

30 The object of the invention is achieved by comprising the  
steps of:

35 a) opening the auction for a given period of time for a  
plurality of bidders during which period of time the  
bidders may prepare a plurality of bid packages con-  
taining a prioritized list with purchase conditions

for the articles for which it is desired to place bids later,

- 5       b) holding the actual auction, which is performed by the central computer which checks whether the bids stated in the bid packages prepared by the bidders in step a), may be placed, and if yes, then placing the bid,
- 10      c) closing the auction after all bids have been processed in the central computer, a list of the articles acquired by the individual bidder being prepared in the central computer.
- 15      Bids may hereby be placed from any geographical location, if only the period of time during which bids may be placed has been suitably selected. The bidders need not be physically present either in this auctioning form. The actual auction is thus conducted by means of the computer
- 20      alone.

When, as stated in claim 2, the bid packages are prepared by means of an auction catalogue which is received from the central computer, a survey of the articles for sale

25      may be distributed in an extremely expedient manner to a very large segment of potential buyers no matter where they are present.

To optimize the auctioning form additionally, it is expedient, as stated in claim 3, that the actual auction of

30      the articles stored in the central computer is conducted with the following steps:

- 35      a) first the central computer checks whether the first bid package contains bids which fulfil the purchase

conditions and may thereby be placed for some of the articles,

5 and if some of the bids fulfil the purchase conditions, these bids are placed and stored,

b) step a) is repeated for all bid packages placed or being placed.

10 This provides the advantage in particular that the price formation is optimized completely for buyers and sellers, which may be illustrated in the following way.

15 If a first bidder has made a prioritized list of e.g. five bids, but only wants to buy two, and he e.g. places a bid for article three which is later outbid by another bidder, then the first bidder can buy a later article without breaking his purchase condition specifying max. two articles. In short, the auction proceeds in the manner that each time a bid is placed, all bidders' purchase  
20 conditions are run through for all the articles for sale.

To make the auctioning additionally flexible, it is expedient, as stated in claim 4, that the central computer  
25 checks in connection with the placing of bids that all purchase conditions for the placing of bids are fulfilled before bids are possibly placed.

This primarily ensures that a bidder does not risk buying  
30 too many articles, or perhaps even buys more than he can afford.

When, as stated in claim 5, the bid packages contain a prioritized list of the order of the articles in which it  
35 is desired to place bids, the bidders may have the best

conceivable distribution of the articles which they want to buy.

It is a further advantage, as stated in claim 6, that the  
5 bid packages contain terms which are related to external conditions.

These terms may e.g. be that a bid may be placed only if  
an external condition has been fulfilled, which might  
10 e.g. be that a bank is to undertake to finance the purchase before a bid is placed.

To make the auctioning form even more flexible, it is an  
advantage, as stated in claim 7, that the actual auction  
15 is held in connection with a live auction, so that when one or more bidders place a bid for an article, the steps defined in claim 3 for each bidding will be executed by the central computer.

20 The auction may thus proceed like a traditional auction, but with the central computer in control of the auction, as a bid placed from e.g. a saleroom will cause all the steps concerning purchase conditions to be run as if it was a pure computer auction. This will thus mean that as  
25 soon as a bid is placed from the saleroom for an article, all bid packages previously placed will be run through and checked for purchase conditions. As a consequence, changes may be made in the composition of which articles are acquired by which buyers.

30  
In the event that one or more bidders have bid the same price and it is the highest bid, the central computer selects the bid package placed first as being the one that is to apply. This provides a "just" way of selling the  
35 articles in the event that all bid conditions are the same.

To ensure that the bidder does not feel that he places too high bids for some articles, it is an advantage, as stated in claim 9, that the auctioned articles are sold to the bidder who has placed the highest bid, but at a price which is lower, e.g. the second highest bid.

As mentioned, the invention also relates to uses of the method.

These uses are defined in claims 10 and 11, it being noted in particular that executing the auction on the Internet will be extremely suitable.

The invention will now be explained more fully with reference to an embodiment shown in the drawing, in which

fig. 1 shows a block diagram of conducting an auction in a computer environment,

fig. 2 shows a flow chart of the individual steps performed in connection with the computer auction,

fig. 3 shows the principle of the actual working method in the computer,

fig. 4 shows an additional routine in connection with the execution of the auction in the computer,

fig. 5 shows a diagram corresponding to the one in fig. 3, but now extended with a live auction,

fig. 6 shows how purchase conditions for a number of persons proceed, and

fig. 7 shows an additional example of how bids may be placed.



In fig. 1, the numeral 1 designates a central computer, a so-called auction server, from which the auction is controlled according to the invention. The central computer has data connections to a plurality of sellers 2 and a plurality of bidders 3.

As will be additionally seen from fig. 1, the central computer 1 has a catalogue storage 5 which contains information on the articles to be auctioned. Also included are a bid packages storage 6 containing information on the possible bids of each individual bidder, a bid storage 7 for submitting bids to the central computer, and a storage 8 for storing and submitting the auction results.

Fig. 2 shows the three phases in which the auction takes place. The three phases are separated by dashed lines in the figure.

At the top, the numeral 10 designates that the auctioning of each article may be started in the blocks 11, 12 and 13. Moreover, between the upper two dashed lines it will be possible to prioritize a list of the articles which it is desired to buy, and to insert some purchase conditions. All this takes place during a given period of time, and when this has elapsed, the auction is closed, which is symbolized in the blocks 16, 17, 18 and 19.

Fig. 3 shows in more detail how the actual execution of the bid packages according to fig. 2, shown by the reference numeral 15, takes place. Each packet is input at 20, and for each package a bid is placed for the individual articles, shown at 21. It is decided at 22 whether the current article is to be auctioned. If yes, the purchase conditions are checked at 23, and if they are OK, a bid is placed. If they are not OK, no bid is placed, and the next article in the package goes through the same

process. If articles upon which no bids are placed in the bid package because the purchase conditions are not fulfilled, it is decided in the block 25 whether there are more bids in the bid package, following which the same process is repeated. As soon as all the bids in the bid package have been placed and processed, feedback will take place at 26 to implement processing of the next bid package. Once all bid packages and all bids have been submitted and processed, the auction wishes will have been computer processed, which is shown symbolically at 27.

Fig. 4 shows an example of a routine of how the execution of the auction proper proceeds. A bid is placed at 24a. It is checked at 28 whether it is the highest bid. If it is not the highest bid, the bid is not placed, and the process terminates at 32. If, on the other hand, it is the highest bid, it is checked at 29 whether the bid is higher than a possible minimum price. If it is not, the bid is not placed, and it is rejected and transferred for termination at 32. If the bid is higher than the minimum price, it will be stored at 30 as the highest bid, and then the process is terminated.

Also fig. 5 shows an auction process which has the same elements as in fig. 3 in several respects. At the block 39 where a bid for an article is placed. When this bid is placed, the computer places its bid. This process continues until either the computer or one of the live participants has placed the highest bid. It is noted that live participants do not know beforehand how high the computer will bid. When live bidding for the article is over, it is decided whether the computer bid or one of the live bids is highest, following which the auctioning of the article is completed. This means that, because of his purchase conditions, this bidder now has the possi-

bility to bid for a later article and to acquire it if this bid is higher.

5 An illustration of how the bidders may place bids with purchase conditions is shown in fig. 6, which shows three possible outcomes of the selection of three persons X, Y and Z at the reference numeral 43. As will be seen, person X has prioritized his bids such that he has selected the articles in the order C, A, B and D. It is noted that 10 they are processed in alphabetical order in the computer, but with several runs, as explained before. As will be seen, X has placed a bid for C of DKK 20,000, and since this is the highest bid placed at the auction, he will buy the article, if no others place higher bids later. As 15 a second priority he has selected a car of the make Ford Sierrra, and has bid 15,000, but since this is lower than a previously placed higher bid, nothing will be bought. Person X has selected an Opel Vectra as the third priority, and since he has bid the highest price here too, he 20 will buy this article. Then a bid will never be placed for priority 4, since the bidder has had a condition of max. 2 articles, and since he has already bought 2, the bid 4 will never be placed.

25 A similar example is shown for person Y in fig. 6, from which it will be seen that this person has selected one article as a purchase condition, and has got a car of the make Opel Mantra as his third priority, since the bids for the two preceding priorities were not sufficiently 30 high. Finally, fig. 6 shows that person Z just wants to buy one article, and as he got priority 1, bids will never be placed for his remaining articles.

35 Finally, fig. 7, like fig. 6, shows a little more sophisticated list of purchase conditions, an additional column including some extra conditions being shown at 58. The

principle in itself is the same as in fig. 6, but now includes the possibility that if the person does not succeed in buying anything, he will transfer his bids to another auction.

5

Clearly, the auction according to the invention may be used in many connections and with a very large number of bidders spread geographically anywhere in the world.

- 10 Examples of uses may be holding of automobile auctions, holding of food auctions, such as fish auctions, holding of flower auctions, fur auctions, works of art auctions, and options, etc. Even uses in connection with financial transactions are conceivable.

P a t e n t   C l a i m s :  
-----

1. A method of holding an auction of a plurality of articles (7) in a computer environment, said auction being controlled by a central computer (1), c h a r a c t e r - i z e d by comprising the steps of:
- 5
- a) opening the auction for a given period of time for a plurality of bidders (3), during which period of time the bidders may prepare a plurality of bid packages containing a prioritized list with purchase conditions for the articles for which it is desired to place bids later,
- 10
- b) holding the actual auction, which is performed by the central computer (1) which checks whether the bids stated in the bid packages prepared by the bidders (3) in step a) may be placed, and if yes, then placing the bid,
- 15
- 20
- c) closing the auction after all bids have been processed in the central computer (1), a list (8) of the articles acquired by the individual bidder being prepared in the central computer.
- 25
2. A method according to claim 1, c h a r a c t e r - i z e d in that the bid packages are prepared by means of an auction catalogue (5) which is received from the central computer (1).
- 30
3. A method according to claim 1 or 2, c h a r a c - t e r i z e d in that the actual auction of the articles stored in the central computer is conducted with the following steps:
- 35

- a) first the central computer (1) checks whether the first bid package contains bids which fulfil the purchase conditions and may thereby be placed for some of the articles (7),  
5 and if some of the bids fulfil the purchase conditions, these bids are placed and stored,
- b) step a) is repeated for all bid packages placed or  
10 being placed.
4. A method according to claims 1-3, c h a r a c t e r - i z e d in that the central computer (1) checks in connection with the placing of bids whether all purchase  
15 conditions for the placing of bids are fulfilled before bids are possibly placed.
5. A method according to claims 1-4, c h a r a c t e r - i z e d in that the bid packages contain a prioritized  
20 list (45) of the order of the articles in which it is desired to place bids.
6. A method according to claims 1-5, c h a r a c t e r - i z e d in that the bid packages contain terms which are  
25 related to external conditions (58).
7. A method according to claims 1-6, c h a r a c t e r - i z e d in that the actual auction is held in connection with a live auction (39) so that when one or more bidders  
30 place a bid for an article, then the steps of claim 3 for each bidding will be executed by the central computer.
8. A method according to any one of the preceding claims, c h a r a c t e r i z e d in that where one or  
35 more bidders have bid the same price and it is the high-

est bid, the central computer (1) selects the bid placed first.

9. A method according to any one of the preceding  
5 claims, characterized in that the auctioned  
articles are sold to the bidder who has the highest bid,  
but at price which is lower, e.g. the second highest bid.
10. Use of the method according to any one of claims 1-9  
10 for executing auctions in a computer network, such as the  
Internet.
11. Use of the method according to any one of claims 1-9  
for automobile auctions.

1/7

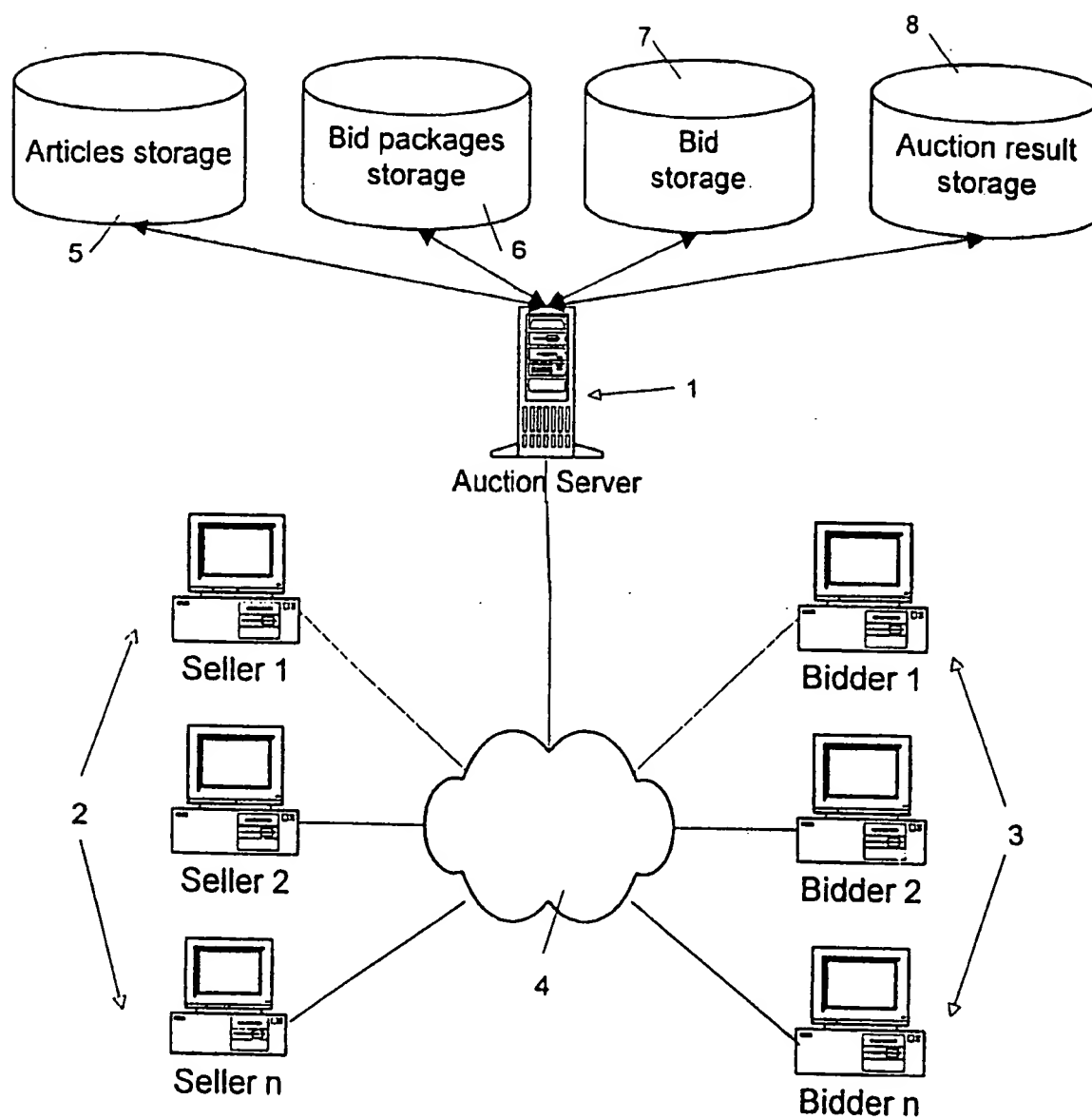


Fig. 1



2/7

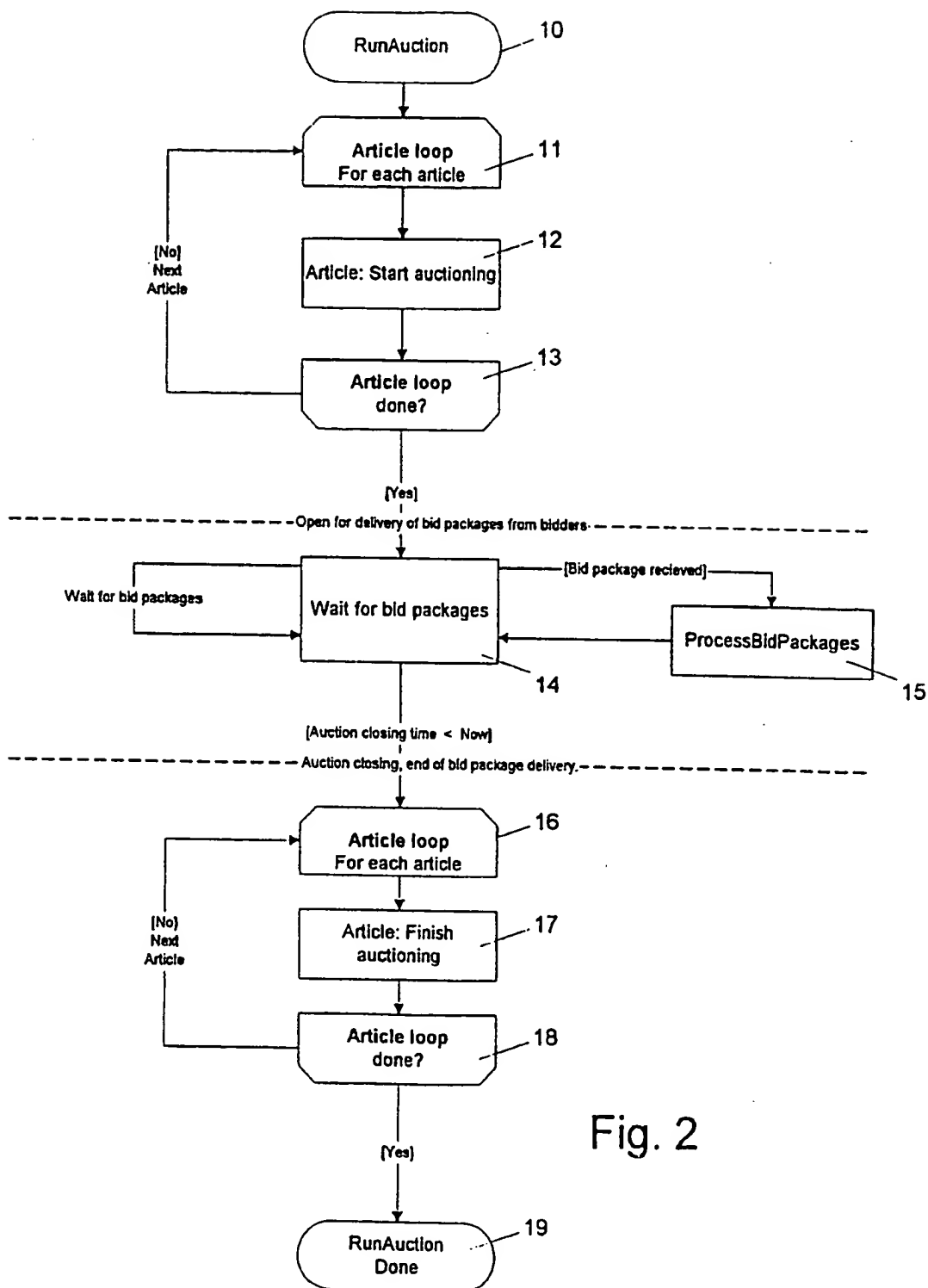


Fig. 2

3/7

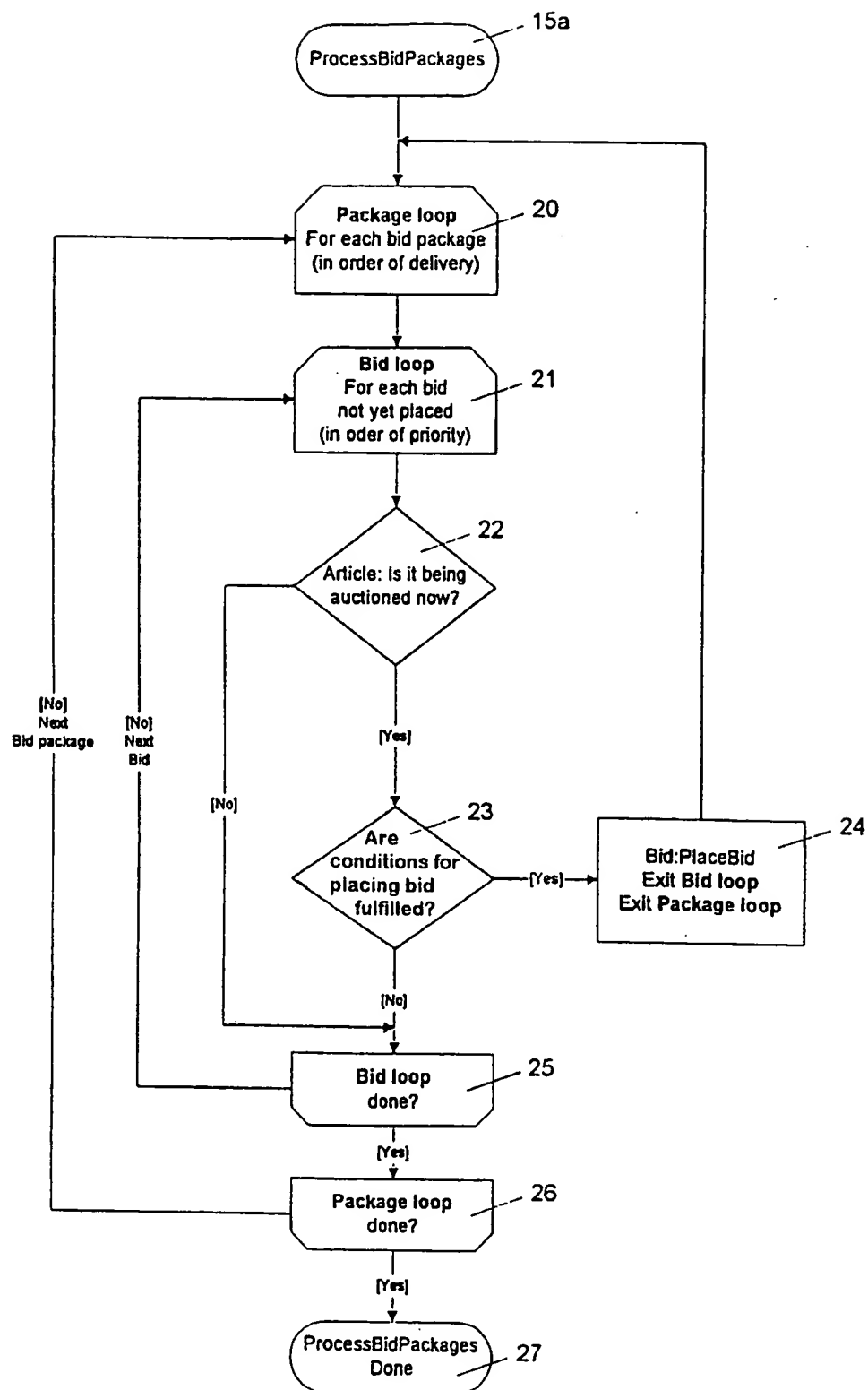


Fig. 3

4/7

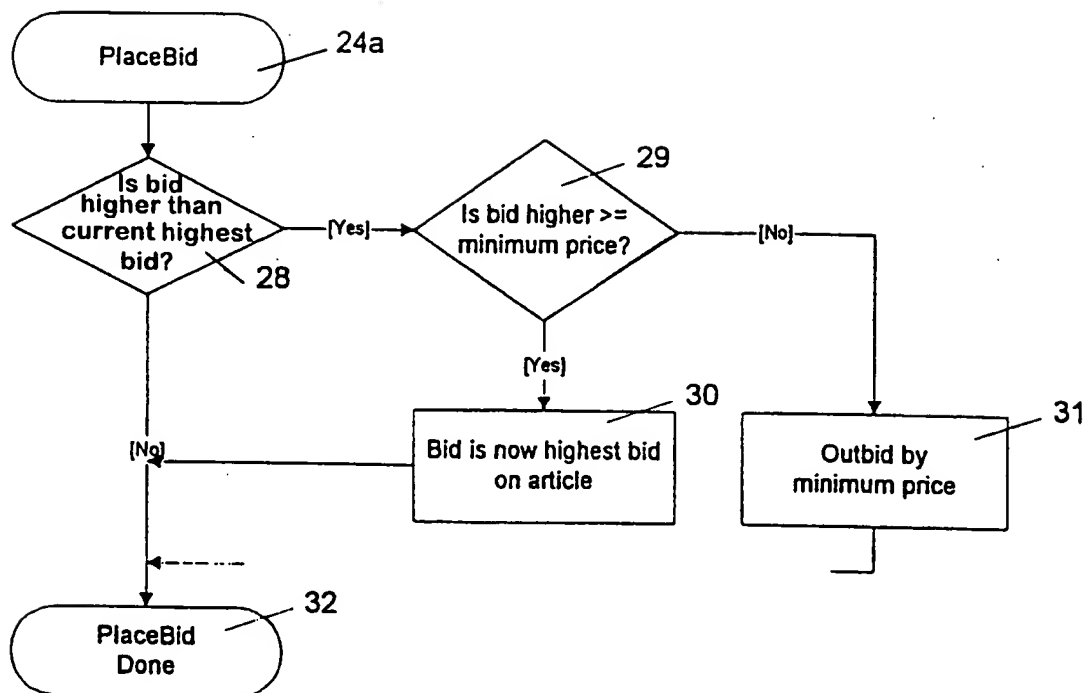


Fig. 4

5/7

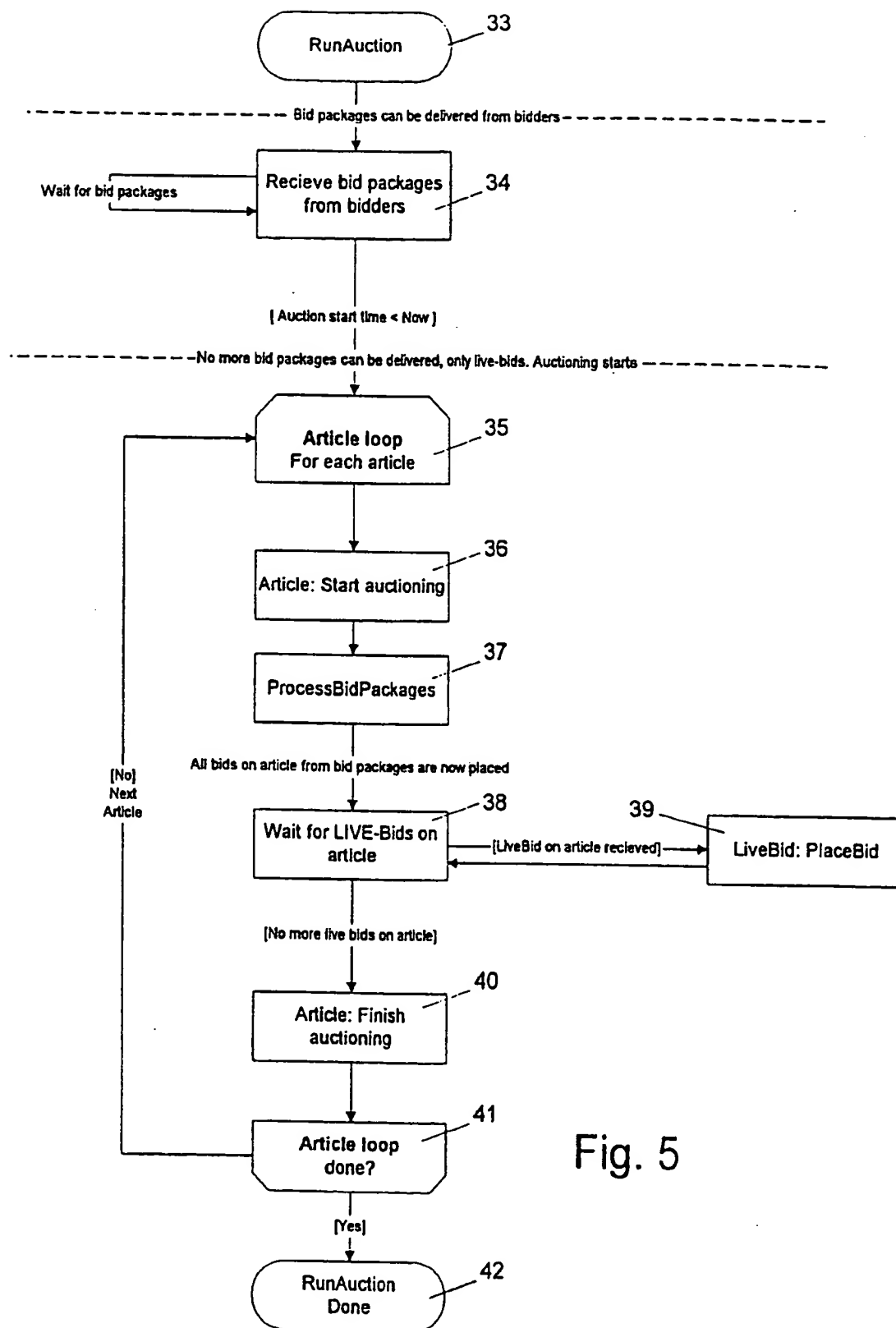


Fig. 5

6/7

43 Person X		Limitation : Buy max. 2 articles				44
Priority	Article	Description	Own bid	High bid	Order bid placed / Final result	
1	C	Ford Escort	20.000	20.000	1. Bid placed, article purchased	
2	A	Ford Sierra	15.000	20.000	2. Bid placed, outbid	
3	B	Opel Vectra	25.000	25.000	5. Bid placed, article purchased	
4	D	Opel Manta	20.000		Bid never placed	
45	46	47	48	49	50	

Person Y		Limitation : Buy max. 1 article			
Priority	Article	Description	Own bid	High bid	Order bid placed / Final result
1	B	Opel Vectra	20.000	25.000	3. Bid placed, outbid
2	C	Ford Escort	15.000	20.000	6. Bid placed, too low
3	D	Opel Manta	25.000	25.000	7. Bid placed, article purchased
4	A	Ford Sierra	25.000		Bid never placed

Person Z		Limitation : Buy max. 1 article			
Priority	Article	Description	Own bid	High bid	Order bid placed / Final result
1	A	Ford Sierra	20.000	20.000	1. Bid placed, article purchased
2	D	Opel Manta	30.000		Bid never placed
3	B	Opel Vectra	30.000		Bid never placed
4	C	Ford Escort	25.000		Bid never placed

Fig. 6

7/7

51 Person Z		52 Limitation : Buy max. 1 article			
Priority	Article	Description	Own bid	Conditions for placing bid	External conditions for placing bid
1	A	Ford Sierra	20.000	if not (Highest on A,C or D)	
2	D	Opel Manta	30.000	if not (Highest on A,B or D)	
3	B	Opel Vectra	30.000	if not (Highest on A,B or C)	
4	C	Ford Escort	25.000	if not (Highest on B,C or D)	If not(Bought Article X on auction Z)

Fig. 7

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/DK 98/00040

## A. CLASSIFICATION OF SUBJECT MATTER

IPC6: G06F 17/60, H04L 12/18 // G07C 11/00, G07C 15/00  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: G06F, H04L, G07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WIPO

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	US 5640569 A (MARK S. MILLER ET AL), 17 June 1997 (17.06.97), claims 1-8, abstract --	1-11
A	FR 2733847 A1 (LE BRIS DENIS), 8 November 1996 (08.11.96), claims 1,11, abstract --	1-11
A	WO 9605563 A1 (REUTERS LIMITED), 22 February 1996 (22.02.96), abstract --	1-11
A	JP 7037015 A (OAK NET:KK), 7 February 1995 (07.02.95), abstract --	1-11

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

14 July 1998

Date of mailing of the international search report

17 -07- 1998

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

Sylvain Dunand  
Telephone No. +46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/DK 98/00040

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	EP 0828223 A2 (HITACHI, LTD.), 11 March 1998 (11.03.98), abstract  -- -----	1-11



# INTERNATIONAL SEARCH REPORT

Information on patent family members

30/06/98

International application No.

PCT/DK 98/00040

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
US	5640569	A	17/06/97	NONE	
FR	2733847	A1	08/11/96	NONE	
WO	9605563	A1	22/02/96	AU 3531395 A	07/03/96
				CA 2197768 A	22/02/96
				EP 0776505 A	04/06/97
				GB 2294788 A	08/05/96
				GB 9416673 D	00/00/00
				GB 9516896 D	00/00/00
				JP 10504409 T	28/04/98
JP	7037015	A	07/02/95	NONE	
EP	0828223	A2	11/03/98	AU 3677697 A	12/03/98
				JP 10078992 A	24/03/98